

---

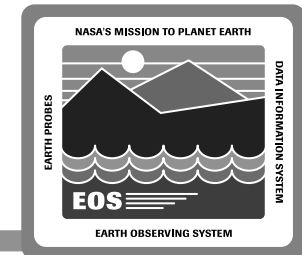
# **Attachment:**

# **FOS Release B Summary**

---

**20 August 1997**

# FOS Release A Capabilities



## Scheduling

### Planning & Scheduling

BAP Definer Tool  
Activity Definer Tool  
Detailed Activity Schedule  
Timeline Tool  
ASTER I/F Filter

### Command Mgt.

Uplink Load Generation  
ATC Load Generation  
Ground Sched. Generation

## Real-Time

### Resource Mgt.

String Manager  
Command Authority  
Ground Control Privilege

### Telemetry

Decom Engine  
Mirrored Telemetry  
Parameter Server

### Command

Cmd. Validation, Generation,  
Uplink, and Notification

### Real-Time Contact Mgt.

NCC GCMRs

## Analysis

### FUI

Analysis Request Tool  
Analysis Report Generation

### Analysis

User Selected Statistics  
Basic Analysis Request

### Data Mgt.

Data Archive

## Support Services

ECL  
Events  
Help

Screen Management  
Window Manipulation  
Status Window

Display Builder  
Procedure Builder  
Room Builder

Time Selector  
Ground Script Control  
DB Edit

DB Generation  
(Activities, Cmd, Tlm)

## Infrastructure

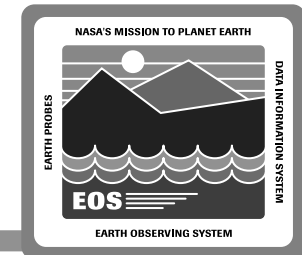
Message Passing  
Security Services

Name Services  
Directory Services

Network Services  
Management Services

Interface Connectivity  
Time Services

# FOS Release B Capabilities



## Scheduling

### Planning & Scheduling

Timeline Tool  
Planning Aids Mgt.  
TDRS Scheduling  
Activity Constraint Check  
What-If

### Command Mgt.

Cmd. Constraint Check  
Load Catalog/Reports  
Generate Patch Loads  
Memory Mgt./Compares  
Load Manager  
Microprocessor Loads  
RTS Load Builder

## Real-Time

### Resource Mgt.

String Cfg. Change Requests  
Resource Monitor  
Failure Recovery

### Telemetry

Derived Parameters, Selective  
Decom, Tailored Telemetry  
S/C State Check  
Memory Dump

### Command

Cmd Verification  
Load Processing

### Real-Time Contact Mgt.

NCC ODMs, EDOS CODAs

## Analysis

### FUI

Standing Orders

### Analysis

Clock Correlation  
Solid State Recorder Mgt.  
S/C Activity Log  
System Statistics  
User-Defined Algorithms  
Expert Advisor

### Data Mgt.

Triggers  
Queue Mgr.

## Support Services

User Customization  
E-Mail  
Document Reader

Report Browser/Editor Tool  
Quick Msg. & Analysis  
Display Builder (schematics)

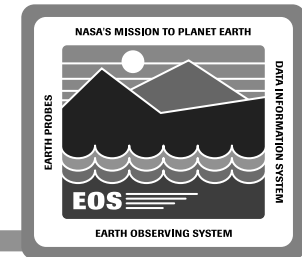
DB Backup/Restore  
Archive Events  
Event History Tool

DB Reporting  
DB Maintenance  
Data Mover

## Infrastructure

Release A Capabilities  
Additional Management and Communication Services

# Release Status Summary



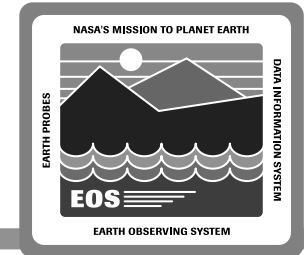
## Requirements Status Summary

- **FOS requirements updates for Release B are in May RTM baseline**
  - Updates focused on refining requirements text for testability purposes
  - Includes mapping between requirements and test procedures

## AM-1 Interface

- **White Paper prepared by NASA/FOS and FOS**
  - Defines current understanding of the interface for each functional area between the FOS and the AM-1 spacecraft
  - Defines interface baseline to effectively manage future spacecraft modifications
  - FOS Release B is compliant with the White Paper

# Release Status Summary (cont.)



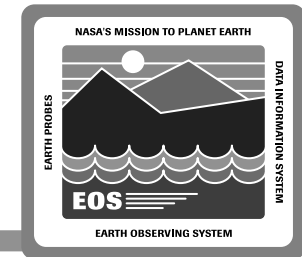
**Kerberos has been removed**

- **Based on requests by NCC and EDOS**
- **No changes to security requirements**
  - **Simplify implementation for user authentication services**
  - **ICDs need to be updated**

**GSFC DAAC/FOS Interface Moved to Post-Release B delivery**

- **Approach**
  - **Analogous to PDPS interface**
  - **Code samples have been provided to FOS by PDPS**
- **Impact**
  - **None since FOS has local archive with requisite disk space to support pre-launch activities**
- **Plan**
  - **Interface functionality scheduled for December 1997**

# Release Status Summary (cont.)

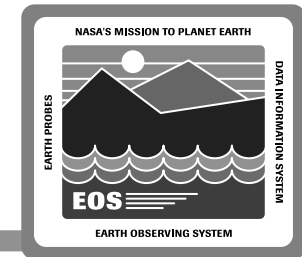


## FOS Release B Contingency Implementation Summary

- **Security Services**
  - Authentication
  - Authorization
- **Management Services**
  - Monitor hardware, network, software
  - Trouble-ticketing from ISTs
- **Requirements Impact**
  - EOC interface to SMC is being reviewed
  - Security Service implementation consistent with CDR presentation and ESDIS Security Working Group presentation
  - Management Services reporting level consistent with original ops concept per FOS/CSMS ICD

# Release Status Summary (cont.)

---



## FOS Release B Contingency Implementation Summary (continued)

- **Communications Server**
  - **Host reflector software**
    - Direct multicast traffic to IST**
  - **Host Netscape Communications Server**
  - **Previously entitled 'Multicast Server'**
- **Management Server**
  - **Prime/backup servers**
  - **Host Tivoli Management software**
  - **Host DCE interface to GSFC DAAC**